Atlantis Tanks Group Ltd

Legend House
Station Road
Ferryhill
DL17 0BP

CERTIFICATE OF PERFORMANCE

Date: July 2021

Product Type: Fireproofed Oil Tank Range (various capacities available)

Product Imagery:

Intended Use: This tank is to be used for the storage of heating oils and certain other oils (please ask) and in locations where 60 minute fire protection is a requirement.

Details: This is a triple skin tank with integral fireproofing providing in excess of 60 minutes fire protection to the primary storage tank and contents. The tank is manufactured by Atlantis Tanks Group Ltd. The primary or inner tank is fitted with a 2" fill point, a gauge port, a suction port and a tank/bund vent. The secondary skin provides the necessary 110% full bund capacity which is also entirely protected by the integral fireproofing which is encased in the third or tertiary skin. This is a unique foam glass panel providing an outstanding protection against heat and flame. The foam glass is non-absorbent ensuring no oil can ever be 'wicked' up into it. Unlike a mere rock wool slab or insulation system, this is a product that is used to protect the most demanding and large storage capacity tanks for oil, gas and other highly flammable products and in building systems. The glass panel surrounds the entire tank across all 6 sides providing a solid and unparalleled protection. The tank is very secure with a full locking lid providing safety and peace of mind in the most demanding circumstances. There are 4 lifting eyes for the safe movement and installation of the tank. The tank has a 1" bottom outlet. The tank is guaranteed for 10 years. This guarantee covers the functional ability of the tank for its intended use. We recommend regular external painting of the tank to provide an even greater longevity.

Conforms to: The internal tank is manufactured to BS799 pt 5. The secondary bund tank meets the EA requirements for the control of pollution (oil storage regulations). The fireproofing foam glass protection provides the necessary 60 minute fire protection for the tank when used in an outdoor domestic dwelling situation as required by the Building Control department. The foam glass protection provides a Euroclass A1 fire protection to the EN14305 standard

Place of Manufacture: The tank is made in the UK. The foam glass panels are made in Belgium

Signed on behalf of Atlantis Tanks Group Ltd

Jon Mytton - Director

Atlantis Tanks Group Ltd

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Certification: See certificates below...

CE

DECLARATION OF PERFORMANCE
DOP n° 100010018A 2017-01-01
FOAMGLAS® Flat packed ONE

FOAMGLAS

1.	Unique identification code of the product-type	FOAMGLAS® Flat packed ONE DOP n° 100010018A 2017/01/01-ThBeli-CG-EN14305-ST(+)430-ST(-)(-265)-PL(P)1,5-DS(TH)-CS(Y)600-BS450-TR150-WS-WL(P)-CC(1,5/1/50)225-CL2-Mu
2.	Identification of the construction product as required under Art. 11(4)	Flat packed ONE Cellular glass - slabs
3.	Intended use or uses of the construction product	Thermal insulation for industrial installations & Building Equipment
4.	Name and contact address of the manufacturer as required pursuant Art. 11(5)	PCE-Pittsburgh Corning Europe NV/SA - Albertkade 1 - B3980 Tessenderlo (B) www.foamglas.com quality-compliance@foamglas.com
5.	Name of the authorised representative whose mandate covers the tasks specified in Art. 12(2)	none
6.	System or systems AVCP as set out in Annex V	AVCP system 3
7.	Harmonised standard	EN 14305
	Notified body	Thermal conductivity - BBRI (No. 1136) & FIW (No. 751) / Fire reaction - WFGRT (No. 1173) / Compressive strength -BBRI (No. 1136)

8. *Table 1*

Essential characteristics	Performance		
Thermal resistance	Thermal conductivity (λD-value)	λD-value see table 2	EN 14305 + A1:2013
	Thickness	from 40 to 180 mm	
Reaction to fire Euroclass characteristics	Reaction to fire	Euroclass A1	
Durability of thermal resistance against heat, weathering, agening/degradation	Thermal conductivity (λD-value)	λD-value see table 2	
	Durability characteristics	Thermal conductivity of cellular glass products does not change with time, experience has shown the cell structure to be stable.	
	Dimensional Stability	DS (70/90)	
Durability of reaction to fire against heat, weathering, aging/degradation	Durability characteristics	The fire performance of cellular glass does not deteriorate with time.	
	Dimensional Stability	DS (70/90)	
Compressive strength	Compressive strength	CS ≥ 600 kPa	
	Point load	PL ≤ 1,5 mm	
Tensile/flexural strength	Bending Strength	BS ≥ 450 kPa	
	Tensile strength parallel to faces	NPD	
	Tensile strength perpendular to faces	TR ≥ 150 kPa	
Durability of compressive strength against aging degradation	Compressive creep	-	
Water permeability	Water absorption (short)	WS	
	Water absorption (long)	WL(P)	
Water vapour permeability	Water Vapour transmission	∞ infinite	
Acoustic absoption index	Sound absorption	AP1→NPD	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD	
Min / Max Temperature range	Min / Max Temperature range	-265°C / +430°C	
Trace quantities of water soluble chloride	Trace quantities of water soluble chloride	≤ 2 mg/kg	
pH	pH	8-10	
Continous glowing combustion	Continous glowing combustion	no glowing combustion	

Table 2

Thermal conductivity -180°C	λD ≤ 0.020 W/(m•K)
Thermal conductivity -150°C	λD ≤ 0.022 W/(m•K)
Thermal conductivity -120°C	λD ≤ 0.025 W/(m•K)
Thermal conductivity -80°C	λD ≤ 0.029 W/(m•K)
Thermal conductivity -40°C	λD ≤ 0.034 W/(m•K)
Thermal conductivity 0°C	λD ≤ 0.040 W/(m•K)
Thermal conductivity +40°C	λD ≤ 0.046 W/(m•K)
Thermal conductivity +80°C	λD ≤ 0.054 W/(m•K)
Thermal conductivity +120°C	λD ≤ 0.061 W/(m•K)
Thermal conductivity +180°C	λD ≤ 0.075 W/(m•K)
Thermal conductivity +240°C	λD ≤ 0.090 W/(m•K)
Thermal conductivity +300°C	λD ≤ 0.107 W/(m•K)

9. The performance of the product is in conformity with the declared performance . This declaration of performance is issued, in accordance with Regulation (EU) No 305/211, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer

Piet Vitse, Director Standardisation & Technical Approvals, QEESH Manager

Tessenderlo (B), 01.01.2017

Previous version: 01.01.2014

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Reaction to fire classification report No. 17465B

Owner of the classification report

Pittsburgh Corning Europe (PCE)
Albertkade 1
3980 Tessenderlo
Belgium

Introduction

This classification report defines the classification assigned to the product **'FOAMGLAS® W+F, FOAMGLAS® T3, FOAMGLAS® T3+, FOAMGLAS® T4+, FOAMGLAS® ONE, FOAMGLAS® S3, FOAMGLAS® F, FOAMGLAS® TAPERED, FOAMGLAS® PT and FOAMGLAS® HLB'** following the Commission Decision of 4 October 1996 (96/603/EG), as amended by 2000/605/EG and 2003/424/EG, establishing the list of products belonging to Class A1 'No contribution to fire' – General note: a material shall not consist of more than 1,0 % by weight or volume of homogeneously distributed organic material. This Commission Decision is referenced in the European Classification Standard EN 13501-1:2007+A1:2009.

The organic content of "**FOAMGLAS®**" has been determined in accordance with the procedures given in the standard EN 13820:2003: Thermal insulating materials for building applications – Determination of organic content.

This classification report consists of 5 pages

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1. DETAILS OF CLASSIFIED PRODUCTS

a) Nature and end use application

The products **FOAMGLAS® W+F, FOAMGLAS® T3, FOAMGLAS® T3+, FOAMGLAS® T4+, FOAMGLAS® ONE, FOAMGLAS® S3, FOAMGLAS® F, FOAMGLAS® TAPERED, FOAMGLAS® PT and FOAMGLAS® HLB** are defined as "unfaced cellular glass slabs".
Their classification is valid for the following end use application(s):
Used as thermal insulation for buildings (according to EN 13167) and thermal insulation for building equipment and industrial installations (according to EN 14305).

b) Description of the tested products

This description is based on information given by the sponsor.

	Nominal values
FOAMGLAS® W+F	
Type of product	The tested product is an unfaced cellular glass slab.
Manufacturer	PCCR-Pittsburgh Corning
Thickness (mm)	100
Density (kg/m³)	100 ± 10 %
Use of fire retardants	No
Colour	Black
FOAMGLAS® T3+	
Type of product	The tested product is an unfaced cellular glass slab.
Manufacturer	Pittsburgh Corning Europe (PCE)
Thickness (mm)	100
Density (kg/m³)	100 ± 10 %
Use of fire retardants	No
Colour	Black
FOAMGLAS® HLB 2400	
Type of product	The tested product is an unfaced cellular glass slab.
Manufacturer	Pittsburgh Corning Europe (PCE)
Thickness (mm)	100
Density (kg/m³)	200 ± 15 %
Use of fire retardants	No
Colour	Black

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2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

a) Test reports

Name of the laboratory	Name of the sponsor	Test report ref. No.	Test method
WFRGENT nv Ghent, Belgium	Pittsburgh Corning Europe Tessenderlo, Belgium	16658A 16658B 17465A	EN 13820 (September 2003)
WFRGENT nv Ghent, Belgium	Pittsburgh Corning Europe Tessenderlo, Belgium	16658D	EXAP according to CEN/TS 15117 (August 2005)

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class A1	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN 13820 (1)	M_{oc}	5	0,09 %	(-)	≤ 1,0 %	(-)
EN 13820 (2)	M_{oc}	5	0,05%	(-)	≤ 1,0 %	(-)

(-) Not applicable.
(1) Based on the results obtained in test report No. 16658B.
(2) Based on the results obtained in test report No. 17465A.

	M_{OC} (%)
FOAMGLAS® W+F (100 kg/m³)	0,05
FOAMGLAS® HLB 2400 (200 kg/m³)	0,11

Based on the results obtained in test report No. 16658A: Only one single test on each product has been carried out instead of the standard five replicates.

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3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference of classification

This classification has been carried out in accordance with:

- Commission Decision of 4 October 1996 (96/603/EG), as amended by 2000/605/EG and 2003/424/EG, establishing the list of products belonging to Class A1 'No contribution to fire' – General note: a material shall not consist of more than 1,0 % by weight or volume of homogeneously distributed organic material. This Commission Decision is referenced in the European Classification standard EN 13501-1:2007+A1:2009.
- EN 13167.

b) Classification

The products **"FOAMGLAS® W+F, FOAMGLAS® T3, FOAMGLAS® T3+, FOAMGLAS® T4+, FOAMGLAS® ONE, FOAMGLAS® S3, FOAMGLAS® F, FOAMGLAS® TAPERED, FOAMGLAS® PT and FOAMGLAS® HLB"** in relation to their reaction to fire behavior are classified as:

Fire behavior
A1

c) Field of application

This classification is valid for the following product parameters:

- Nominal thickness: All thicknesses
- Nominal density: All densities between or equal to 100 ± 10 kg/m³ and 200 ± 30 kg/m³
- Use of fire retardants: No
- Colour: Black

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4. RESTRICTIONS

At the time the standard EN 13501-1:2007+A1:2009 was published, no decision was made concerning the duration of validity of a classification report.

Provisions of Regulation (EU) 305/2011, commonly known as the Construction Products Regulation (CPR), prevail over any conflicting provisions in the harmonised standards and technical specifications.

5. WARNING

This classification report does not represent type approval nor certification of the product.

The classification assigned to the product in this report is appropriate to a Declaration of Performance (DoP) of the essential characteristics of the construction product by the manufacturer within the context of a System 1 Assessment and Verification of Constancy of Performance (AVCP).
Under the Construction Products Regulation (CPR: EU 305/2011), such a Declaration of Performance (DoP) is a requirement for affixing the CE marking.

PREPARED BY	APPROVED BY
Niek De Pauw (Signature) Project assistant, under the authority of Prof. Dr. Ir. P. Vandevelde Ghent 2015.12.04 08:05:12 +01'00'	Bart Sette (Signature) General Manager Ghent 2015.12.04 09:17:08 +01'00'

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